

[illegible]

TO RF $\frac{32}{\text{}} \rightarrow$ RESULT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|------|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|---|----|---|---|---|---|---|---|---|---|---|---|---|---|
| OPCODE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OFFSET | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | | | |
| NAME | creg | | z | scst12 | | | | | | | | | | | | | | | | | | ucst3 | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | s | p |
| WIDTH | 3 | 1 | 1 | 12 | | | | | | | | | | | | | | | | | | 3 | 1 | 10 | | | | | | | | | | 1 | 1 | |

FIG. 4a

| PIPELINE STAGE | E1 | PS | PW | PR | DP | DC | E1 |
|-------------------|------|----|----|----|----|----|----|
| READ | src2 | | | | | | |
| WRITTEN | PC | | | | | | |
| BRANCH TAKEN | X | | | | | | |
| UNIT IN USE | .S | | | | | | |
| PIPELINE STAGE | E1 | PS | PW | PR | DP | DC | E1 |
| READ | src2 | | | | | | |
| WRITTEN | PC | | | | | | |
| BRANCH TAKEN | X | | | | | | |
| UNIT IN USE | .S2 | | | | | | |

FIG. 4b

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|------|----|----|----|----|----|----|----|----|------|----|----|----|----|-------|----|----|----|----|----|----|----|---|---|---|----|---|---|---|---|---|---|--|--|--|---|---|
| OPCODE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OFFSET | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | | | | |
| NAME | creg | | z | 0 | 0 | 0 | 0 | 0 | 1 | src2 | | 0 | | 0 | ucst3 | | x | | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | p | | | | | | | |
| WIDTH | 3 | 1 | 1 | 5 | | | | | | | | | | | | | | | | | | 5 | 2 | 3 | 1 | 10 | | | | | | | | | | 1 | 1 |

FIG. 5a

FIG. 5b

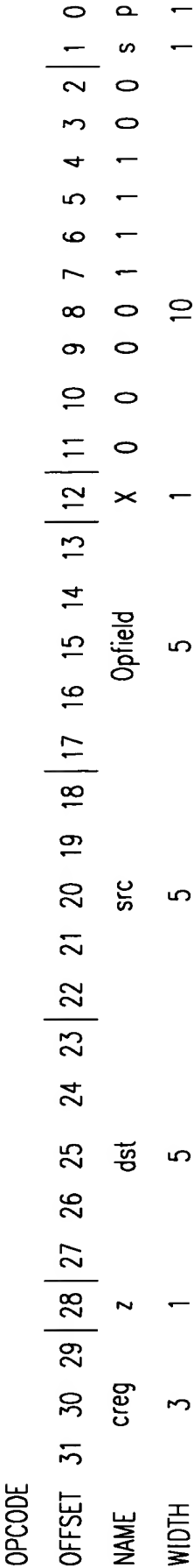


FIG. 6a

| PIPELINE STAGE | E1 | E2 | E3 | E4 |
|-------------------|------|----|----|----|
| READ | src2 | | | |
| WRITTEN | dst | | | |
| UNIT IN USE | .M | | | |

FIG. 6b